

CALCULATION BASIS

Sconnex® improves your thermal performance.

The constant increase in demands on the energy efficiency of buildings has a significant effect on construction costs and thermal performance requirements. For planners and building contractors, the question arises as to how an efficient Energy saving can be implemented as cost effective as possible.

The adaptation of the insulation concept through systematic use of Schöck Sconnex® enables significant cost savings and superior thermal performance. Efficient insulation concepts are presented on the following pages with Schöck Sconnex® compared to typical insulation solutions. The calculation is based on a single apartment building block, demonstrating different detail designs for each thermal junction.

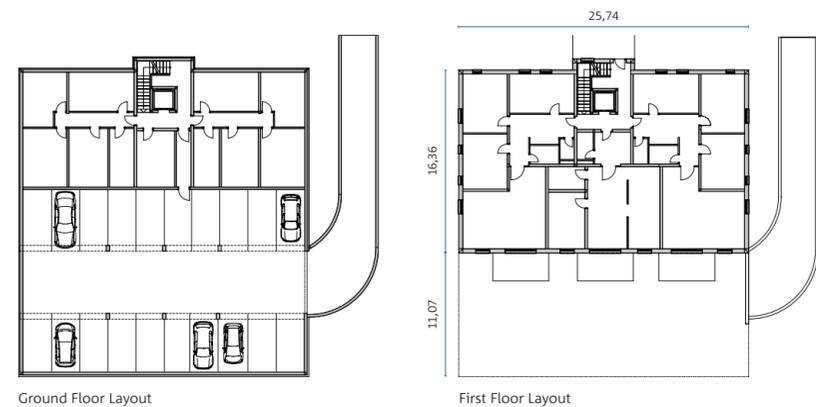
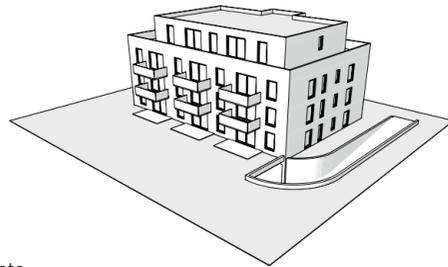
Building data

Project:

- 11 Apartments
- 4 Floors
- Underground 20 Parking Spaces

Construction:

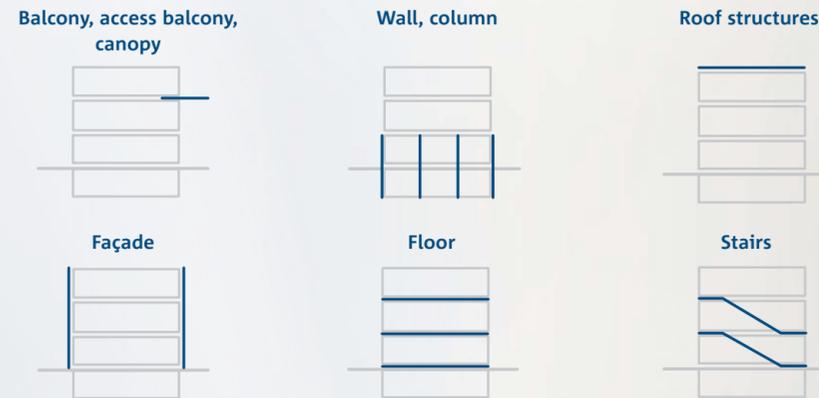
- Outer walls 250 mm Reinforced Concrete
- Load Bearing Interior Blockwork 200 mm
- Typical Insulation 160 mm / Highly Insulated 240 mm
- Typical Insulation under ceiling 100 mm / Highly insulated 125 mm



COMPREHENSIVE EXPERTISE

Dependably the right solution.

Using our future-proof product solutions and systems, we fulfil all structural, physical and construction requirements of the respective application for new construction projects and existing buildings. Our main areas of focus are the reduction of thermal bridges, footfall noise insulation and reinforcement technology.



Efficient insulation concepts.

Thermal performance comparison of different insulation concepts using example apartment block building.

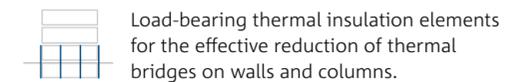


Schöck Ltd
Staniford House
4 Wedgwood Road, Bicester
Oxfordshire, OX26 4UL
Telephone: 01865 290890
design-uk@schoeck.com
www.schoeck.com

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STUDY CASE

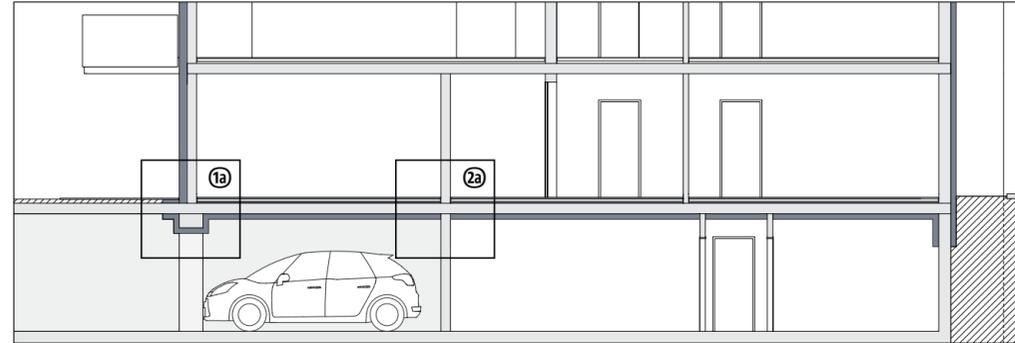
Thermal Optimization with Sconnex®



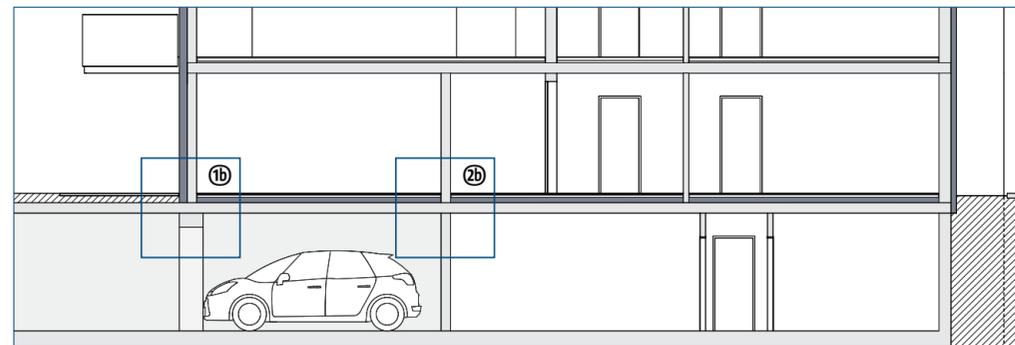
CASE STUDY

Comparing insulation concepts.

Conventional insulation

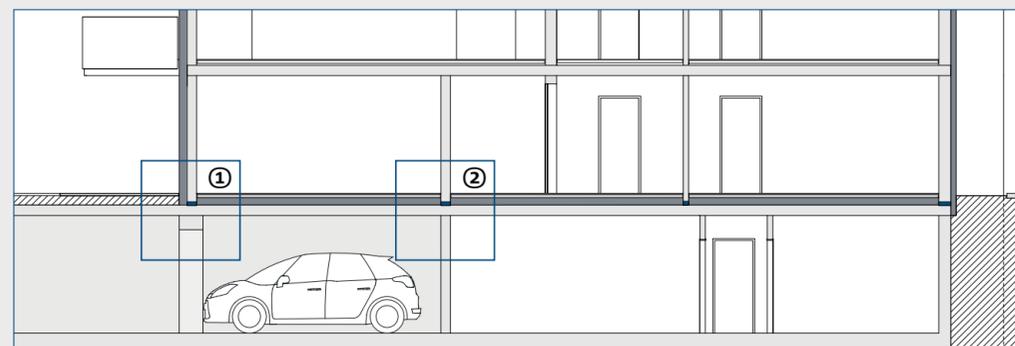


Variant A: Insulation thickness 100 mm below the slab and sound insulation 40 mm above the slab



Variant B: Insulation thickness 130 mm above the slab

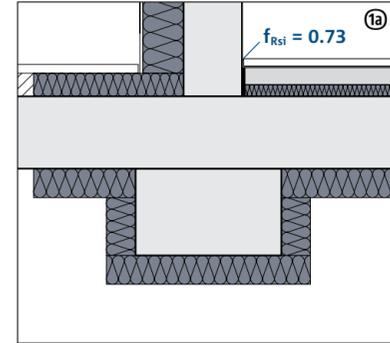
Optimised insulation course with Scconnex®



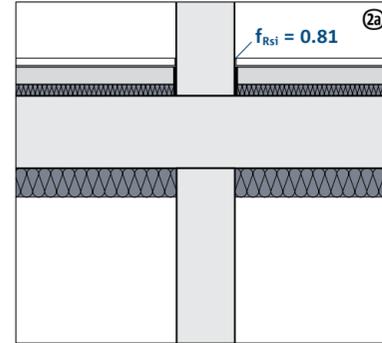
Optimized with Scconnex, insulation completely laid on-slab thickness 130 mm and exposed concrete ceiling.

Details reviewed.

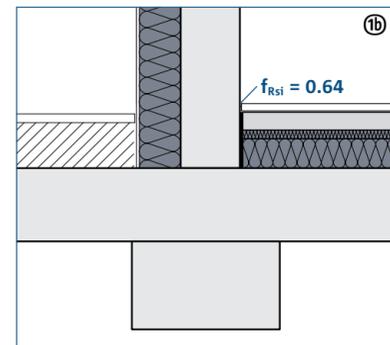
Details with conventional insulation



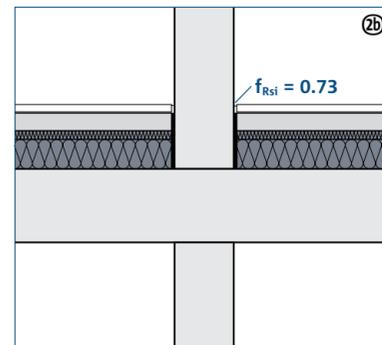
Variant A: Ceiling insulation without Scconnex®



Variant A: Ceiling insulation without Scconnex®

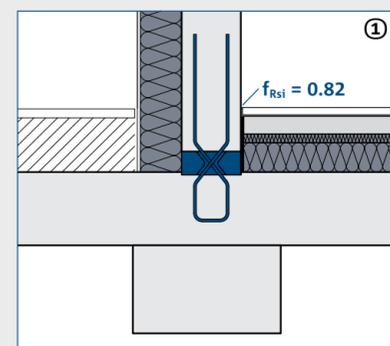


Variant B: No ceiling insulation to the Beam

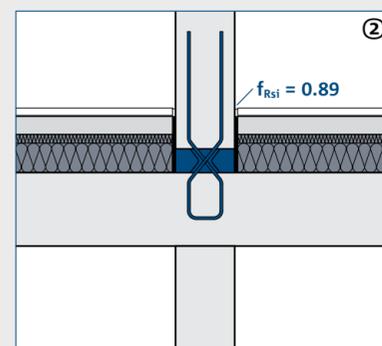


Variant B: No ceiling or flanking insulation

Details with Scconnex®



Beam and ceiling exposed concrete finish



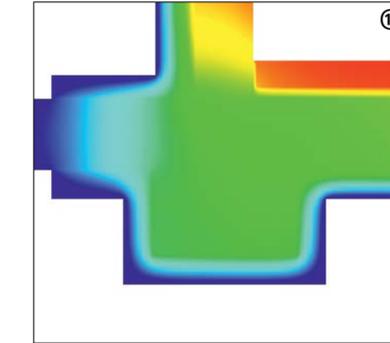
Wall and ceiling exposed concrete finish



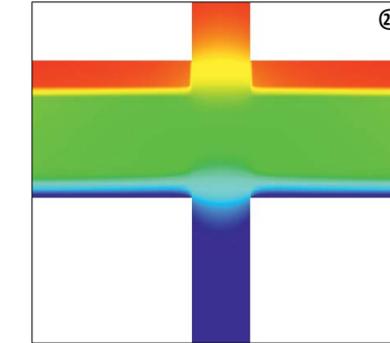
Schöck Scconnex® Typ W

Thermal Performance at a Glance.

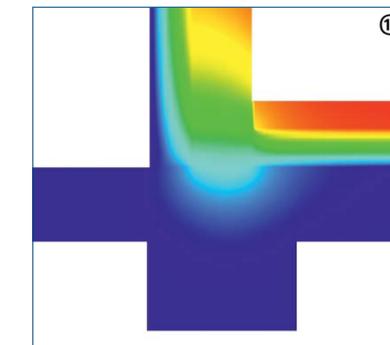
Conventional with flanking insulation variant



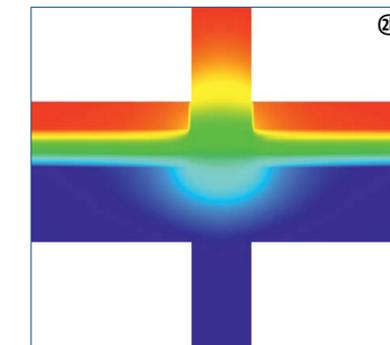
Variant A: Ceiling insulation without Scconnex®



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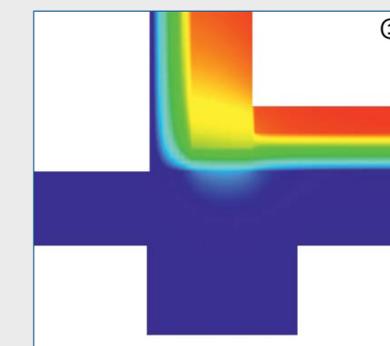


Variant B: No ceiling insulation to the Beam

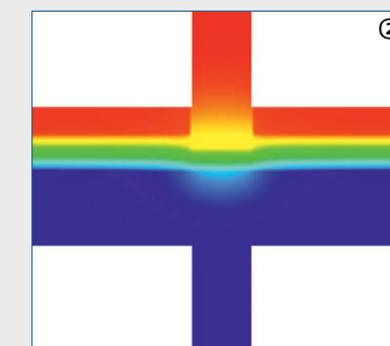


Variant B: No ceiling or flanking insulation

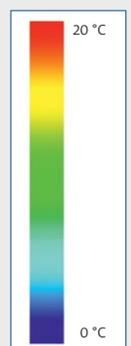
Comparable thermal performance with Scconnex®



Beam and ceiling exposed concrete finish



Wall and ceiling exposed concrete finish



Temperature scale